

# VIAVI

## IFR6015

### Military Flight Line Test Set

Test Transponder Modes 1, 2, 3/A, C, and S, DME, TCAS I & II, ADS-B UAT, TIS I, Military E-TCAS and TACAN Avionics Systems.

The VIAVI IFR6015 is a user friendly flight line test set that allows for fast, reliable, and functional testing of military transponder, TCAS and TACAN installed systems. Referenced in many OEM manuals and supported with procedures, the IFR6015 provides the operator with the confidence necessary for system performance testing.



### Features

- IFF Modes 1 & 2
- TACAN/DME interrogator testing
- Military E-TCAS
- Transponder Auto Test (DO-181E)
- Automated ADS-B AC 20-165B surface/air performance testing
- ADS-B (Out) monitor and decode
- ADS-B (In) target generation
- UUT parametric tests
- User programmable TCAS scenarios
- Altitude encoder
- Over-the-air, direct, or coupled testing
- Battery operation six hours plus

### Benefits

- TACAN ground station simulation
- Legacy TACAN test set emulation
- Provides a full FAR Part 43, Appendix F test
- Verify ADS-B /UAT installed systems
- With the optional antenna coupler, avoid ATC interference and the need for frequency allocation approval (DD 1494)
- Performs TACAN/DME testing Ground-to-Air (G/A), Air-to-Air (A/A)
- Simulate ATCRBS or Mode S intruders for TCAS testing

## Ordering Information

### Versions and Options

Order Number	Description
72424	IFR6015 Mode 1,2,3A/C/S Transponder, TACAN/DME, TCAS I/II, E-TCAS, TIS Ramp Test Set NSN: 6625-01-578-4893 NSN: 6625-01-574-2423 NSN: 6625-01-601-4034* *Most current NSN, identified on unit serial tag
141590	IFR6015 Test Set w/ 6000OPT3 and 6000OPT6 options
83411	6000OPT3 ADS-B 1090 MHz
112795**	6000OPT5 UAT 978 MHz (for units with Mod 2 upgrade installed)
141751**	Kit, UAT upgrade (includes Opt. 5 and Mod 2 factory upgrade)
140609**	6000OPT6 ADS-B Integrity Test Option

\*\*This option includes cables and accessories

### Standard Accessories

10241	Transit case
62302	Power cord, 110V
64020	Power cord set, 220V
62401	TNC/TNC Coax. 12 in.
112830	TNC/TNC Coax. 72 in.
56080	Fuse, 5 Amp. 32V
112684	Antenna
64749	Antenna shield
64580	Breakout box
67366	Power supply
6100	Getting Started Manual
6097	Operation Manual - CD (AC0825CD)

### Optional Accessories

63656	Desk top stand (AC0820)
67474	Tripod (AC0826)
82553	Tripod, dolly, stand (AC24006)
112349	UC-584 Coupler Kit, dual antenna
112350	UC-584 Coupler Kit, single antenna
141589	TCAS Accessory Kit
6099	IFR6015 Maintenance Manual - CD

### Extended Warranty (2 year standard)

84373	36 months with scheduled calibration
84374	60 months with scheduled calibration

## Physical Characteristics

Size Test set only	11.2"H x 9.1"W x 2.7"D 28.4 cm x 23.1 cm x 6.8 cm
w/ standard access.	24"H x 21"W x 12"D 61 cm x 53.3 cm x 30.4 cm
Weight	8 lbs., 3.6 kg (test set only) 34 lbs., 15.4 kg (shipping weight)

## Environmental

Altitude:	≤ 4800 meters
Operating Temp.	-20° to 55°C (-4° to 131°F)
Storage Temp.	-30°C to 71°C (-22° to 159.8°F)
Relative Humidity	95% (±5%) from 5° to 30°C (41° to 86°F) 75% (±5%) from 30° to 40°C (86° to 104°F) 45% (±5%) from 40° to 55°C (104° to 131°F)

## Test Set Certifications

MIL-PRF-28800F, Class 2
MIL-STD-810F
UL, EN, CE

### Radiated Testing:

The IFR6015 is supplied with a directional antenna for over-the-air testing.

### Direct Connect Testing:

The IFR6015 may be directly connected to the UUT with the supplied RF coax cable via the RF I/O port.



IFR6015 with antenna



IFR6015 with standard accessories



UC-584 Coupler

Standard accessories include a breakout box for software updates and antenna shield to prevent uninhibited transmissions.

The optional UC-584 Antenna Coupler eliminates ATC interference.